

Recombinant human DNAL1 protein

Catalog Number: ATGP1958

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-190aa

UniProt No.

Q4LDG9

NCBI Accession No.

NP_113615

Alternative Names

Dynein light chain 1 axonemal, Dynein light chain 1, axonemal, C14orf168, CILD16

PRODUCT SPECIFICATION

Molecular Weight

23.9 kDa (213aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

DNAL1 is an axonemal dynein light chain which functions as a component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. DNAL1 is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. Alternate splicing results in multiple transcript variants. Recombinant human DNAL1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

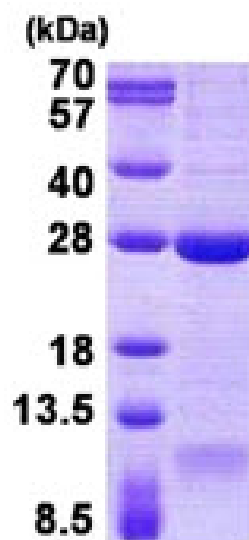
MGSSHHHHHH SSGLVPRGSH MGSMKATTI KEALARWEEK TGQRPSEAKE IKLYAQIPPI EKMDASLSML ANCEKLSLST
NCIEKIANLN GLKNLRILSL GRNNIKNLNG LEAVGDTLEE LWISYNFIEK LKGIHIMKKL KILYMSNNLV KDWAEFVKLA
ELPCLEDLVF VGNPLEEKHS AENNWIEEAT KRVPKLKKLD GTPVIKGDEE EDN

General References

Horvath J, Fliegau M, et al. (2005). Am J Respir Cell Mol Biol. 33(1):41-7.
Lancaster MA, et al. (2009). Curr Opin Genet Dev. 19(3):220-9.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)